

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P709301

Luminaire Tested: DL2W-BB-M-125U-050D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

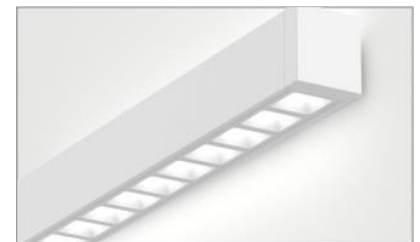
Test Information

Test Method: LM-79-2019
Report Number: P709301
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, G3-2104-222-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-125U-050D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6658.3 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.16
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

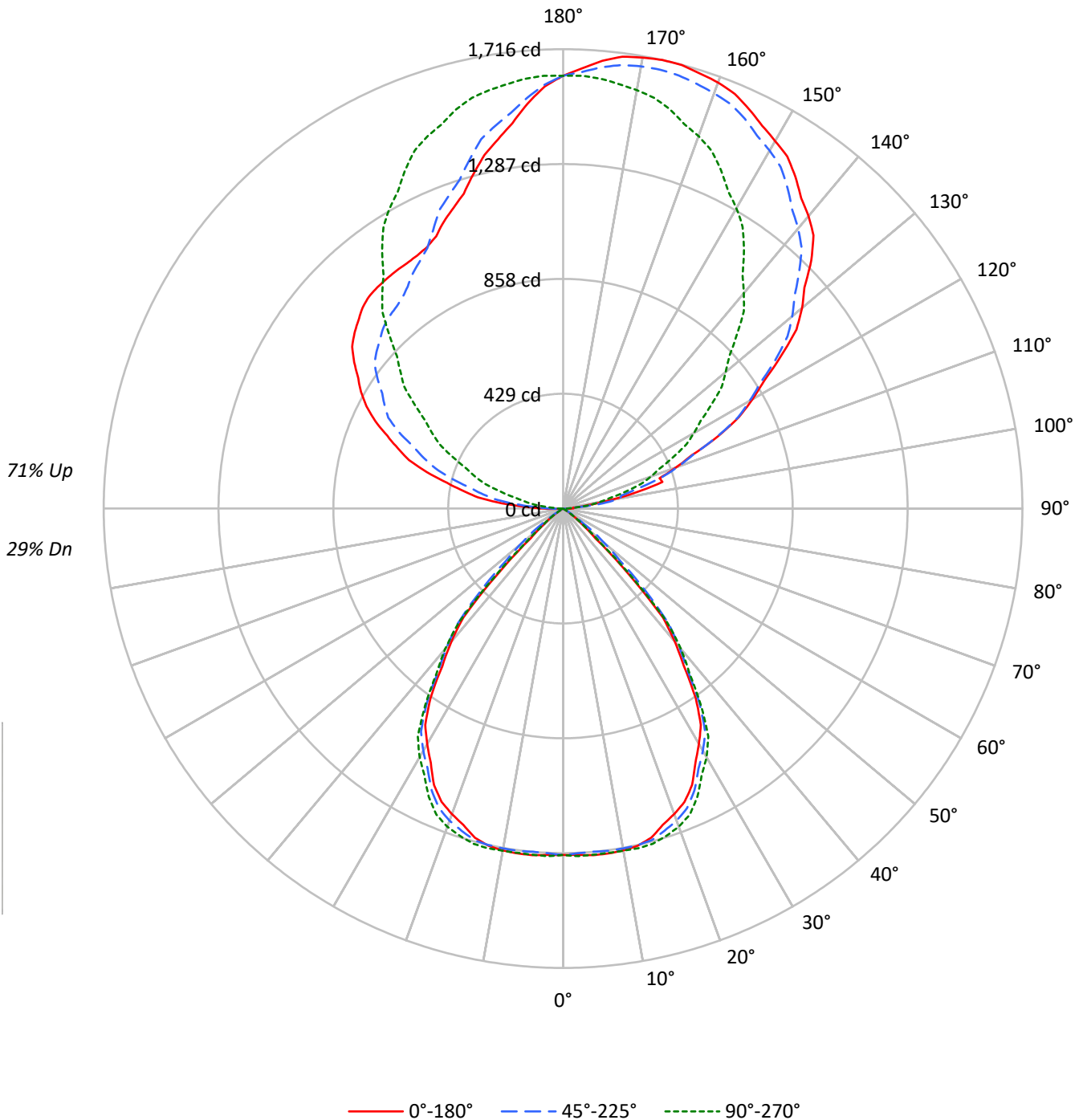
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709301

CATALOG NUMBER: DL2W-BB-M-125U-050D-930-UNV-STD-W-WM-4

Luminous Intensity Polar Plot



TEST NUMBER: P709301

CATALOG NUMBER: DL2W-BB-M-125U-050D-930-UNV-STD-W-WM-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	87	84	84	81	79	76	64	63	61	49	48	47	34	34	33	27
2	87	80	75	71	78	73	68	64	58	55	52	44	42	41	32	31	30	24
3	80	72	65	60	72	65	60	55	52	48	45	40	38	36	29	28	27	22
4	74	64	57	52	66	58	52	48	47	43	40	37	34	32	27	26	24	20
5	68	58	51	45	61	53	46	42	43	38	35	33	31	28	25	23	22	18
6	63	52	45	40	57	48	41	37	39	34	31	31	28	25	23	21	20	17
7	58	47	40	35	53	43	37	33	35	31	28	28	25	23	21	20	18	15
8	54	43	36	31	49	40	33	29	33	28	25	26	23	21	20	18	17	14
9	51	40	33	28	46	36	30	26	30	26	23	24	21	19	18	17	15	13
10	47	36	30	25	43	33	28	24	28	23	20	22	19	17	17	15	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20893	20893	20893	20893	20893
5°	21067	20855	21034	20855	21067
10°	21263	21136	21277	21136	21263
15°	21275	21427	21661	21427	21275
20°	20861	21313	21722	21313	20861
25°	20311	20689	21150	20689	20311
30°	18923	19473	19982	19473	18923
35°	17010	17505	17712	17505	17010
40°	13687	14246	14459	14246	13687
45°	7930	9995	8524	9995	7930
50°	2562	5154	2876	5154	2562
55°	1030	1816	974	1816	1030
60°	32	510	94	510	32
65°	0	27	0	27	0
70°	0	0	0	0	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 10038 cd/sqm

TEST NUMBER: P709301

CATALOG NUMBER: DL2W-BB-M-125U-050D-930-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	1.9
10°-20°	361.9	5.4
20°-30°	532.6	8.0
30°-40°	544.2	8.2
40°-50°	312.8	4.7
50°-60°	54.6	0.8
60°-70°	2.0	0.0
70°-80°	0.0	0.0
80°-90°	8.6	0.1
90°-100°	128.3	1.9
100°-110°	374.6	5.6
110°-120°	611.8	9.2
120°-130°	777.1	11.7
130°-140°	831.5	12.5
140°-150°	776.5	11.7
150°-160°	639.0	9.6
160°-170°	428.7	6.4
170°-180°	152.2	2.3
0°-30°	1018.2	15.3
0°-40°	1562.4	23.5
0°-60°	1929.8	29.0
0°-90°	1940.4	29.1
90°-120°	1114.8	16.7
90°-150°	3499.9	52.6
90°-180°	4720.0	70.9
0°-180°	6658.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1294	1294	1294	1294	1294	
5°	1300	1287	1298	1287	1300	124
15°	1273	1282	1296	1282	1273	357
25°	1140	1161	1187	1161	1140	519
35°	863	888	899	888	863	528
45°	347	438	373	438	347	272
55°	37	64	35	64	37	37
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	3
90°	35	31	6	44	77	16
95°	38	47	50	165	229	63
105°	385	285	238	428	527	356
115°	639	634	453	678	774	626
125°	994	968	676	846	952	889
135°	1312	1247	918	951	1060	1007
145°	1513	1462	1178	1012	1085	946
155°	1646	1607	1396	1148	1122	759
165°	1715	1674	1544	1349	1294	484
175°	1679	1655	1612	1540	1519	161
180°	1617	1617	1617	1617	1617	

TEST NUMBER: P709301

CATALOG NUMBER: DL2W-BB-M-125U-050D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0
2.5°	1294.8	1296.1	1297.5	1294.0	1288.9	1288.5	1293.0	1296.6	1298.0	1299.4	1298.0
5°	1299.8	1300.6	1301.5	1295.6	1287.5	1286.0	1291.1	1295.3	1296.6	1297.8	1296.6
7.5°	1299.2	1300.9	1302.6	1297.7	1290.6	1288.8	1292.2	1295.0	1296.0	1297.1	1296.0
10°	1296.9	1298.6	1300.3	1295.9	1289.5	1288.9	1294.0	1297.8	1297.8	1297.8	1297.8
12.5°	1289.9	1292.3	1294.7	1291.6	1286.5	1288.3	1296.8	1302.8	1301.1	1299.4	1301.1
15°	1272.8	1275.8	1278.8	1279.2	1278.8	1285.0	1297.8	1306.2	1301.0	1295.9	1301.0
17.5°	1238.8	1243.3	1247.8	1252.0	1256.0	1266.8	1284.3	1295.7	1288.8	1281.9	1288.8
20°	1214.1	1218.0	1221.8	1227.6	1234.0	1246.8	1266.1	1278.7	1271.4	1264.2	1271.4
22.5°	1185.7	1189.9	1194.0	1199.1	1204.5	1217.3	1237.6	1251.1	1244.2	1237.2	1244.2
25°	1140.1	1142.6	1145.2	1150.0	1155.6	1167.1	1184.6	1196.6	1191.9	1187.2	1191.9
27.5°	1070.4	1074.7	1079.0	1084.3	1090.1	1100.5	1115.7	1126.6	1124.2	1121.8	1124.2
30°	1015.0	1021.0	1027.0	1033.3	1039.7	1049.3	1062.1	1071.8	1071.8	1071.8	1071.8
32.5°	958.0	963.7	969.3	976.3	983.8	991.7	1000.0	1006.7	1008.0	1009.4	1008.0
35°	863.0	867.7	872.4	878.4	884.8	891.4	898.3	902.9	900.7	898.6	900.7
37.5°	741.0	744.2	747.5	753.8	761.2	768.4	775.4	780.1	778.1	776.0	778.1
40°	649.4	653.7	658.0	664.8	672.5	679.3	685.3	689.4	687.7	686.0	687.7
42.5°	551.7	557.3	562.9	570.6	579.0	586.0	591.7	593.6	584.4	575.1	584.4
45°	347.3	379.4	411.4	426.5	435.9	439.6	437.4	428.9	401.1	373.3	401.1
47.5°	163.6	195.3	227.0	258.5	289.9	295.4	275.2	252.7	223.6	194.5	223.6
50°	102.0	113.5	125.1	159.7	202.0	208.4	178.9	152.1	133.3	114.5	133.3
52.5°	68.9	74.6	80.3	106.9	140.3	142.6	113.8	90.1	81.9	73.7	81.9
55°	36.6	38.3	40.0	50.7	64.4	64.6	51.3	40.6	37.6	34.6	37.6
57.5°	14.0	16.5	19.0	23.8	29.4	29.3	23.7	18.7	15.8	12.9	15.8
60°	1.0	3.1	5.2	9.9	15.5	16.1	11.9	8.0	5.5	2.9	5.5
62.5°	0.2	0.6	1.0	4.3	8.5	8.8	5.2	2.3	1.4	0.6	1.4
65°	0.0	0.0	0.0	0.3	0.7	0.7	0.3	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	6.9	6.7	6.7	6.2	6.2	5.6	4.0	2.5	1.2	2.3
90°	34.6	34.6	33.7	33.7	30.8	30.8	27.9	20.2	12.5	5.8	11.5
92.5°	41.5	41.5	40.6	39.8	37.7	34.6	28.7	28.7	27.1	17.3	31.5
95°	37.5	37.5	36.5	37.5	41.4	52.9	76.9	84.6	57.7	50.0	72.1
97.5°	87.7	90.4	99.6	116.6	146.8	152.2	144.7	107.7	104.5	100.6	132.0
100°	173.1	178.9	190.4	205.8	241.4	191.4	150.0	150.0	141.4	137.5	171.2
102.5°	278.5	281.2	293.5	295.1	236.0	209.1	198.5	194.7	178.3	176.0	215.8
105°	384.7	364.5	320.3	287.6	284.7	284.7	283.7	266.4	243.3	238.5	279.9
107.5°	377.4	372.2	374.7	378.2	382.6	386.1	376.1	347.4	309.5	303.7	343.2
110°	448.2	441.5	446.3	452.0	454.9	456.9	437.6	398.2	358.8	349.1	384.7

TEST NUMBER: P709301

CATALOG NUMBER: DL2W-BB-M-125U-050D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	520.5	517.6	517.8	525.9	525.7	525.3	500.7	452.8	405.7	389.9	424.0
115°	638.6	633.8	626.1	635.7	637.7	630.0	596.3	540.5	481.9	453.0	485.7
117.5°	740.6	739.0	741.4	745.2	742.5	730.6	687.3	624.2	559.2	519.9	543.0
120°	817.5	813.7	817.5	821.4	815.6	794.4	751.2	685.8	610.7	564.6	580.0
122.5°	891.4	890.6	889.9	885.2	885.6	861.4	811.2	742.7	665.4	609.2	614.6
125°	994.5	998.3	993.5	987.8	981.0	954.1	901.2	831.0	743.5	676.1	669.4
127.5°	1098.8	1099.3	1089.9	1084.3	1072.8	1041.6	988.2	919.1	824.5	747.9	723.8
130°	1165.7	1164.7	1156.1	1147.4	1132.0	1103.2	1047.4	975.3	882.9	792.5	760.8
132.5°	1222.6	1224.0	1213.8	1206.7	1187.4	1157.0	1105.9	1034.5	936.0	841.8	800.8
135°	1311.9	1313.8	1301.3	1285.0	1262.8	1231.1	1187.8	1119.5	1021.4	917.6	863.7
137.5°	1384.8	1383.5	1371.1	1356.3	1336.7	1302.7	1262.8	1195.3	1103.2	999.5	923.9
140°	1426.3	1427.3	1415.8	1399.4	1382.1	1350.4	1309.0	1244.6	1153.2	1050.3	972.4
142.5°	1461.7	1463.5	1455.0	1441.0	1420.6	1392.7	1355.9	1293.0	1203.2	1101.1	1017.0
145°	1512.9	1516.8	1509.1	1496.6	1477.3	1447.5	1416.7	1355.2	1272.5	1178.2	1086.8
147.5°	1559.7	1561.8	1555.6	1547.1	1527.5	1499.1	1470.6	1413.8	1336.1	1248.6	1155.9
150°	1585.0	1591.8	1584.1	1576.4	1559.1	1528.3	1505.2	1448.5	1379.2	1295.5	1205.1
152.5°	1612.0	1617.9	1610.2	1601.8	1584.5	1555.2	1533.7	1477.7	1413.8	1335.6	1252.1
155°	1645.6	1653.3	1647.6	1637.9	1620.6	1592.7	1571.6	1520.6	1462.9	1395.6	1317.7
157.5°	1676.8	1682.4	1677.4	1668.5	1647.2	1624.5	1602.4	1558.5	1506.6	1447.9	1380.0
160°	1693.7	1698.5	1692.8	1683.1	1661.0	1639.9	1621.6	1579.3	1531.2	1480.2	1417.7
162.5°	1703.7	1710.8	1705.1	1694.7	1672.6	1653.7	1636.2	1597.0	1553.5	1505.6	1451.5
165°	1714.9	1723.5	1716.8	1706.2	1682.2	1666.8	1653.3	1618.7	1581.2	1543.7	1497.5
167.5°	1716.4	1724.3	1718.2	1709.3	1685.5	1672.4	1661.8	1632.9	1601.2	1571.6	1533.3
170°	1711.0	1719.7	1715.8	1706.2	1683.1	1671.6	1664.9	1639.9	1612.0	1587.0	1557.2
172.5°	1702.6	1710.5	1705.8	1698.5	1675.5	1667.0	1662.6	1641.4	1618.9	1599.3	1576.4
175°	1679.3	1688.0	1683.1	1678.3	1657.2	1652.4	1653.3	1640.8	1625.4	1612.0	1597.5
177.5°	1646.0	1652.2	1648.3	1646.0	1632.9	1632.2	1636.8	1630.6	1623.7	1618.3	1612.2
180°	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8

TEST NUMBER: P709301

CATALOG NUMBER: DL2W-BB-M-125U-050D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0	1294.0
2.5°	1296.6	1293.0	1288.5	1288.9	1294.0	1297.5	1296.1	1294.8
5°	1295.3	1291.1	1286.0	1287.5	1295.6	1301.5	1300.6	1299.8
7.5°	1295.0	1292.2	1288.8	1290.6	1297.7	1302.6	1300.9	1299.2
10°	1297.8	1294.0	1288.9	1289.5	1295.9	1300.3	1298.6	1296.9
12.5°	1302.8	1296.8	1288.3	1286.5	1291.6	1294.7	1292.3	1289.9
15°	1306.2	1297.8	1285.0	1278.8	1279.2	1278.8	1275.8	1272.8
17.5°	1295.7	1284.3	1266.8	1256.0	1252.0	1247.8	1243.3	1238.8
20°	1278.7	1266.1	1246.8	1234.0	1227.6	1221.8	1218.0	1214.1
22.5°	1251.1	1237.6	1217.3	1204.5	1199.1	1194.0	1189.9	1185.7
25°	1196.6	1184.6	1167.1	1155.6	1150.0	1145.2	1142.6	1140.1
27.5°	1126.6	1115.7	1100.5	1090.1	1084.3	1079.0	1074.7	1070.4
30°	1071.8	1062.1	1049.3	1039.7	1033.3	1027.0	1021.0	1015.0
32.5°	1006.7	1000.0	991.7	983.8	976.3	969.3	963.7	958.0
35°	902.9	898.3	891.4	884.8	878.4	872.4	867.7	863.0
37.5°	780.1	775.4	768.4	761.2	753.8	747.5	744.2	741.0
40°	689.4	685.3	679.3	672.5	664.8	658.0	653.7	649.4
42.5°	593.6	591.7	586.0	579.0	570.6	562.9	557.3	551.7
45°	428.9	437.4	439.6	435.9	426.5	411.4	379.4	347.3
47.5°	252.7	275.2	295.4	289.9	258.5	227.0	195.3	163.6
50°	152.1	178.9	208.4	202.0	159.7	125.1	113.5	102.0
52.5°	90.1	113.8	142.6	140.3	106.9	80.3	74.6	68.9
55°	40.6	51.3	64.6	64.4	50.7	40.0	38.3	36.6
57.5°	18.7	23.7	29.3	29.4	23.8	19.0	16.5	14.0
60°	8.0	11.9	16.1	15.5	9.9	5.2	3.1	1.0
62.5°	2.3	5.2	8.8	8.5	4.3	1.0	0.6	0.2
65°	0.0	0.3	0.7	0.7	0.3	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	5.6	7.7	10.0	12.1	13.3	14.6	15.4
90°	18.3	27.9	38.5	50.0	60.6	66.4	73.1	76.9
92.5°	44.4	59.4	77.7	95.4	110.6	119.5	125.4	127.0
95°	104.8	126.0	151.0	179.9	196.2	213.5	226.0	228.9
97.5°	161.8	199.7	234.5	260.3	286.0	304.9	316.8	320.7
100°	204.9	244.3	287.6	316.4	345.3	362.6	379.9	376.1
102.5°	254.1	291.2	335.3	369.5	403.8	424.9	437.6	443.8
105°	325.1	368.4	405.9	451.1	479.9	504.9	523.2	527.1
107.5°	391.6	441.3	479.0	521.9	556.3	578.4	597.3	603.6
110°	438.6	490.5	536.7	570.3	604.0	630.0	647.3	655.9

TEST NUMBER: P709301

CATALOG NUMBER: DL2W-BB-M-125U-050D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	480.9	533.6	585.9	624.2	660.2	683.8	701.2	710.6
115°	541.5	598.2	649.2	706.0	736.7	756.9	769.4	774.2
117.5°	597.1	654.8	709.8	762.1	799.3	812.7	822.5	828.3
120°	630.9	688.6	744.4	794.4	833.9	855.0	865.6	871.4
122.5°	662.5	721.0	776.0	826.0	865.4	889.7	903.3	907.6
125°	709.8	768.5	823.3	868.5	907.9	934.9	950.3	952.2
127.5°	753.1	803.9	863.5	911.0	948.1	973.1	987.2	993.0
130°	780.0	826.2	885.8	934.9	970.5	999.3	1011.8	1017.6
132.5°	807.7	847.0	902.7	954.1	992.8	1018.5	1031.8	1037.6
135°	853.1	876.2	925.2	977.2	1015.7	1041.6	1055.1	1059.9
137.5°	903.9	909.5	941.8	990.5	1031.4	1056.6	1067.6	1073.8
140°	937.8	934.9	954.1	997.4	1036.8	1062.8	1075.3	1079.1
142.5°	973.9	962.6	971.8	1004.3	1040.7	1065.1	1078.4	1082.2
145°	1031.0	1008.0	1003.2	1021.4	1045.5	1068.6	1081.1	1084.9
147.5°	1093.6	1062.6	1040.3	1046.1	1058.4	1073.6	1085.3	1086.1
150°	1135.9	1100.3	1069.5	1067.6	1071.4	1082.0	1090.7	1090.7
152.5°	1181.3	1137.2	1101.8	1093.8	1090.7	1095.9	1101.5	1100.7
155°	1249.4	1201.3	1157.0	1138.8	1131.1	1125.3	1125.3	1122.4
157.5°	1315.2	1264.2	1218.2	1195.7	1180.7	1172.4	1167.4	1161.7
160°	1359.0	1308.0	1255.1	1234.9	1217.6	1207.1	1201.3	1195.5
162.5°	1398.3	1351.1	1301.3	1271.9	1256.9	1247.1	1240.5	1233.2
165°	1453.3	1411.9	1364.8	1334.0	1318.6	1306.1	1300.4	1293.6
167.5°	1500.8	1467.9	1427.9	1398.5	1387.5	1371.1	1366.5	1353.4
170°	1529.3	1503.3	1464.8	1440.8	1432.1	1419.6	1411.9	1400.4
172.5°	1553.9	1532.5	1501.8	1480.0	1479.1	1465.0	1458.9	1451.9
175°	1586.0	1572.5	1548.5	1532.1	1537.9	1531.2	1530.2	1518.7
177.5°	1606.8	1603.7	1588.3	1581.4	1586.0	1586.8	1586.8	1578.3
180°	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8	1616.8

(END OF REPORT)